

配置VXLAN

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简介

本文提供高水平概述虚拟可扩展LAN (VXLAN)和验证命令和输出按照的一些配置示例。

先决条件

要求

Cisco 建议您了解以下主题：

- 组播路由概念例如聚合点(RP)和平台独立组播(PIM)。
- 虚拟端口信道(vPC)概念。

本文假设，IP路由和组播路由在VXLAN配置之前设立了。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 连结9396s作为vPC虚拟隧道终点(VTEPs)该运行7.0(3)I1(1b)
- 连结运行版本6.0(2)U5(1)的3172
- 安装的LAN_ENTERPRISE_SERVICES_PKG许可证

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始(默认)配置。如果您使用的是真实网络,请确保您已经了解所有命令的潜在影响。

背景信息

术语

VXLAN (虚拟可扩展LAN) -提供以太网层2网络服务和一样VLAN执行今天的技术,但是与延伸性和较大适应性。

VNID (Vxlan网络标识) -定义了广播域的24个位分段ID。可互换与“VXLAN分段ID”。

VTEP (虚拟隧道终点) -这是执行封装和解封装的设备。

NVE (网络虚拟接口) -逻辑接口封装和解封装发生的地方。

什么是VXLAN ?

- VXLAN是允许重叠Layer2的技术(L2)网络第3层(L3)强调与使用所有IP路由协议。
- 它使用MAC在UDP封装。

VXLAN解决三主要问题:

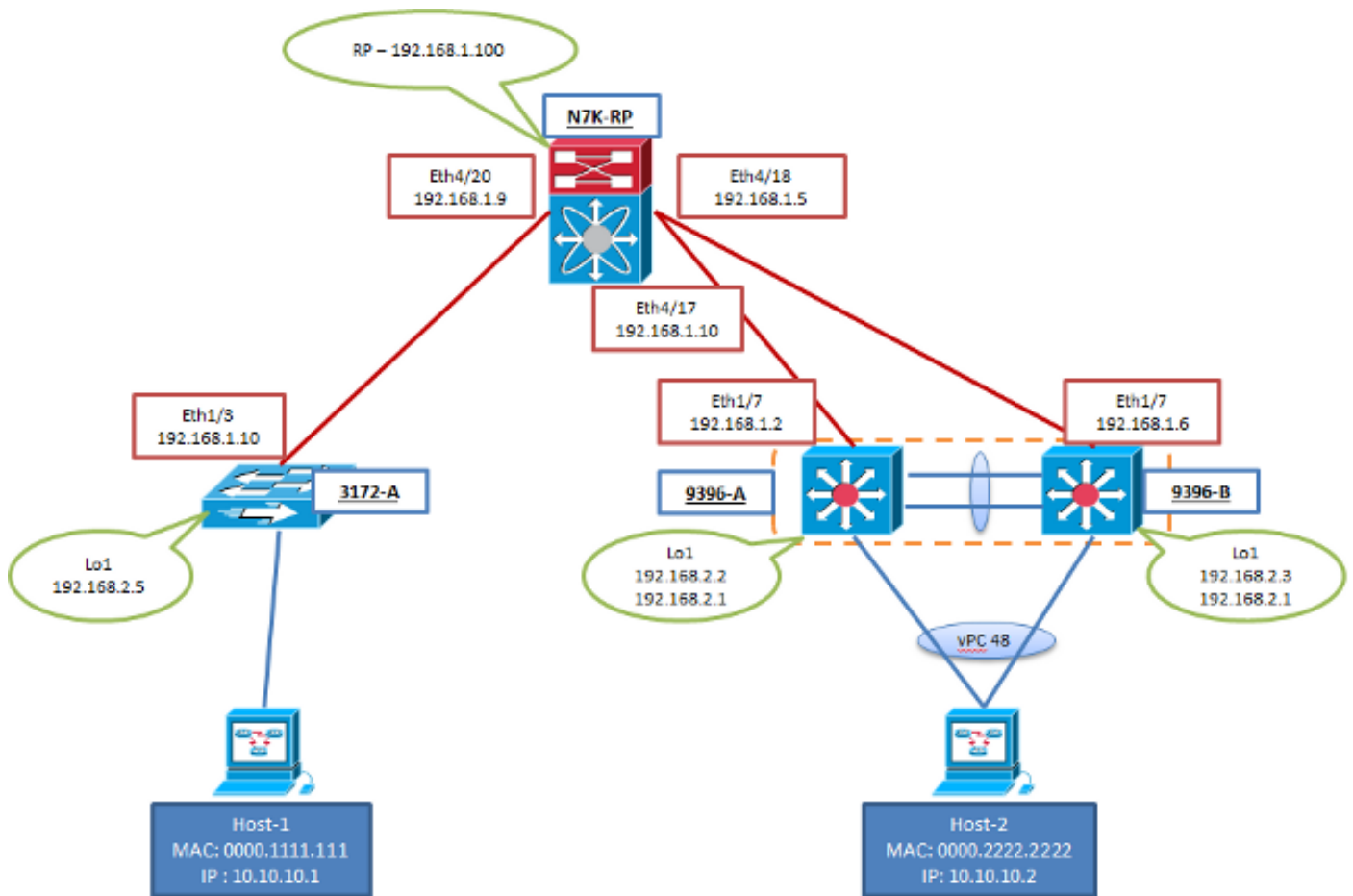
- 16M VNIs (广播域)与传统VLAN提供的4K。
- 允许任何地方在IP网络将延伸的L2。
- 优化泛滥。

为什么VXLAN ?

- VLAN可扩展性- VXLAN对24 BITS扩大L2分段ID字段,潜在准许16在同一网络的百万唯一L2分段。
- L2在L3边界的分段弹性- VXLAN封装在IP UDP报头的一L2帧,允许L2在路由器边界间的邻接。
- 杠杆作用在传输网络组播为了模拟广播、未知单播和组播的扩散行为在L2分段。
- 有效利用等价多路径(ECMP)为了达到在传输网络的最佳路径使用情况。

配置

网络图



配置

这些配置是特定对配置的VXLAN部分。注意9396-A和B在vpc domain，而3172-A不是。这些配置假设全双工可接通性对所有L3接口在有您的选择路由协议的拓扑里。开放最短路径优先(OSPF)用于此示例。它也假设组播路由在这些同样L3接口设立了。

3172-A

```
feature ospf
feature pim
feature vn-segment-vlan-based
feature nv overlay

vlan 10
  vn-segment 160010
vlan 20
  vn-segment 160020

interface nve1
  source-interface loopback1
  member vni 160010 mcast-group 231.1.1.1
  member vni 160020 mcast-group 231.1.1.1
  no shutdown

interface Ethernet1/3
  no switchport
  ip address 192.168.1.10/30
  ip router ospf 2 area 0.0.0.0
  ip pim sparse-mode

interface loopback1
```

```
ip address 192.168.2.5/32
ip router ospf 2 area 0.0.0.0
ip pim sparse-mode
```

9396-A

注意：当vPCs使用作为VTEPs时，回环接口的第二IP使用并且共享在两对等体之间。这是两对等体如何代表作为单个VTEP给远程NVE对等体。

```
feature ospf
feature pim
feature vn-segment-vlan-based
feature nv overlay

ip pim rp-address 192.168.1.100 group-list 224.0.0.0/4

vlan 1,10,20
vlan 10
  vn-segment 160010
vlan 20
  vn-segment 160020

vpc domain 1
  peer-switch
  peer-keepalive destination 10.122.140.99
  peer-gateway

interface port-channel1
  switchport mode trunk
  spanning-tree port type network
  vpc peer-link

interface port-channel48
  switchport mode trunk
  vpc 48

interface nve1
  mtu 9216
  no shutdown
  source-interface loopback1
  member vni 160010 mcast-group 231.1.1.1
  member vni 160020 mcast-group 231.1.1.1

interface Ethernet1/7
  no switchport
  ip address 192.168.1.2/30
  ip router ospf 1 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

interface loopback1
  ip address 192.168.2.2/32
  ip address 192.168.2.1/32 secondary
  ip router ospf 1 area 0.0.0.0
  ip pim sparse-mode
```

9396-B

注意：当vPCs使用作为VTEPs时，回环接口的第二IP使用并且共享在两对等体之间。这是两

对等体如何代表作为单个VTEP给远程NVE对等体。

```
feature ospf
feature pim
feature vn-segment-vlan-based
feature nv overlay

ip pim rp-address 192.168.1.100 group-list 224.0.0.0/4

vlan 1,10,20
vlan 10
  vn-segment 160010
vlan 20
  vn-segment 160020

vpc domain 1
  peer-switch
  peer-keepalive destination 10.122.140.98
  peer-gateway

interface port-channel1
  switchport mode trunk
  spanning-tree port type network
  vpc peer-link

interface port-channel48
  switchport mode trunk
  vpc 48

interface nve1
  mtu 9216
  no shutdown
  source-interface loopback1
  member vni 160010 mcast-group 231.1.1.1
  member vni 160020 mcast-group 231.1.1.1

interface Ethernet1/7
  no switchport
  ip address 192.168.1.6/30
  ip router ospf 1 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

interface loopback1
  ip address 192.168.2.3/32
  ip address 192.168.2.1/32 secondary
  ip router ospf 1 area 0.0.0.0
  ip pim sparse-mode
```

验证

使用本部分可确认配置能否正常运行。

确定[Cisco CLI分析器](#)([仅限注册用户](#))支持显示命令。请使用Cisco CLI分析器为了查看show命令输出分析。

- 显示nve对等体<---您为此将看不到所有输出从重叠的两边，直到流量被初始化
- 显示nve vni
- show run接口nve1
- 显示nve内部平台接口的详细信息(仅9K)

- **show mac address-table**
- **show ip mroute**详细信息

示例输出

这些输出在稳定状态。VTEP对等体互相发现，并且流量通过在两个在encap和decap方向之间。

3172-A

3172-A# **show nve peers**

Interface	Peer-IP	Peer-State
nve1	192.168.2.1	Up

3172-A# **show nve vni**

Interface	VNI	Multicast-group	VNI State
nve1	160010	231.1.1.1	Up
nve1	160020	231.1.1.1	Up

3172-A# **show run interface nve1**

```
!Command: show running-config interface nve1
!Time: Sat Apr 25 15:09:13 2015
```

```
version 6.0(2)U5(1)
```

```
interface nve1
 source-interface loopback1
 member vni 160010 mcast-group 231.1.1.1
 member vni 160020 mcast-group 231.1.1.1
 no shutdown
```

3172-A# **show nve internal platform interface detail**

3172-A# **show mac address-table vlan 10**

Legend:

* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC
age - seconds since first seen,+ - primary entry using vPC Peer-Link

VLAN	MAC Address	Type	age	Secure	NTFY	Ports/SWID.SSID.LID
* 10	0000.1111.1111	dynamic	5030	F	F	Eth1/48
* 10	0000.2222.2222	dynamic	5010	F	F	nve1(192.168.2.1)

3172-A# **show ip mroute detail**

IP Multicast Routing Table for VRF "default"

```
Total number of routes: 3
Total number of (*,G) routes: 1
Total number of (S,G) routes: 1
Total number of (*,G-prefix) routes: 1
```

```
(*, 231.1.1.1/32), uptime: 3w3d, static(1) pim(0) ip(0)
Stats: 15/1539 [Packets/Bytes], 0.000 bps
Incoming interface: Ethernet1/3, RPF nbr: 192.168.1.9, uptime: 1w0d
Outgoing interface list: (count: 1)
 loopback1, uptime: 3w3d, static
```

```
(192.168.2.5/32, 231.1.1.1/32), uptime: 3w3d, ip(0) mrrib(1) pim(1)
Stats: 142751/9136064 [Packets/Bytes], 34.133 bps
```

```
Incoming interface: loopback1, RPF nbr: 192.168.2.5, uptime: 3w3d
Outgoing interface list: (count: 2)
  Ethernet1/3, uptime: 1w0d, pim
  loopback1, uptime: 3w3d, mrib, (RPF)
```

```
(*, 232.0.0.0/8), uptime: 3w3d, pim(0) ip(0)
Stats: 0/0 [Packets/Bytes], 0.000 bps
Incoming interface: Null, RPF nbr: 0.0.0.0, uptime: 3w3d
Outgoing interface list: (count: 0)
```

9396-A

9396-A# **show nve peers**

Interface	Peer-IP	State	LearnType	Uptime	Router-Mac
nve1	192.168.2.5	Up	DP	2d20h	n/a

9396-A# **show nve vni**

Codes: CP - Control Plane DP - Data Plane
 UC - Unconfigured SA - Suppress ARP

Interface	VNI	Multicast-group	State	Mode	Type	[BD/VRF]	Flags
nve1	160010	231.1.1.1	Up	DP	L2	[10]	
nve1	160020	231.1.1.1	Up	DP	L2	[20]	

9396-A# **show run interface nve1**

```
!Command: show running-config interface nve1
!Time: Sat Apr 25 15:20:45 2015
```

```
version 7.0(3)I1(1a)
```

```
interface nve1
  mtu 9216
  no shutdown
  source-interface loopback1
  member vni 160010 mcast-group 231.1.1.1
  member vni 160020 mcast-group 231.1.1.1
```

9396-A# **show nve internal platform interface detail**

Printing details of all NVE Interfaces

Intf	State	PriIP	SecIP	Vnis	Peers
nve1	UP	192.168.2.2	192.168.2.1	2	1

SW_BD/VNIs of interface nve1:

Sw BD	Vni	State	Intf	Type	Vrf-ID
10	160010	UP	nve1	DP	0
20	160020	UP	nve1	DP	0

Peers of interface nve1:

```
=====
```

```
peer_ip: 192.168.2.5, peer_id: 1, state: UP MAC-learning: Enabled
active_swbds:
add_pending_swbds:
rem_pending_swbds:
```

9396-A# **show mac address-table vlan 10**

Legend:

* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC
age - seconds since last seen,+ - primary entry using vPC Peer-Link,
(T) - True, (F) - False

VLAN	MAC Address	Type	age	Secure	NTFY	Ports
+ 10	0000.1111.1111	dynamic	0	F	F	nve1(192.168.2.5)
* 10	0000.2222.2222	dynamic	0	F	F	Po48
G -	7c0e.ceca.f177	static	-	F	F	sup-eth1(R)

9396-A# **show ip mroute detail**

IP Multicast Routing Table for VRF "default"

Total number of routes: 4

Total number of (*,G) routes: 1

Total number of (S,G) routes: 2

Total number of (*,G-prefix) routes: 1

(*, 231.1.1.1/32), uptime: 2d21h, nve(1) ip(0) pim(0)

Data Created: No

Stats: 1/64 [Packets/Bytes], 0.000 bps

Stats: Inactive Flow

Incoming interface: Ethernet1/7, RPF nbr: 192.168.1.1

Outgoing interface list: (count: 1)

nve1, uptime: 2d21h, nve

(192.168.2.1/32, 231.1.1.1/32), uptime: 2d21h, nve(0) ip(0) mrib(0) pim(0)

Data Created: Yes

VXLAN Flags

VXLAN Encap

Stats: 1/51 [Packets/Bytes], 0.000 bps

Stats: Inactive Flow

Incoming interface: loopback1, RPF nbr: 192.168.2.1

Outgoing interface list: (count: 0)

(192.168.2.5/32, 231.1.1.1/32), uptime: 2d21h, ip(0) mrib(0) nve(1) pim(0)

Data Created: Yes

Stats: 16474/1370086 [Packets/Bytes], 13.600 bps

Stats: Active Flow

Incoming interface: Ethernet1/7, RPF nbr: 192.168.1.1

Outgoing interface list: (count: 1)

nve1, uptime: 2d21h, nve

(*, 232.0.0.0/8), uptime: 2d21h, pim(0) ip(0)

Data Created: No

Stats: 0/0 [Packets/Bytes], 0.000 bps

Stats: Inactive Flow

Incoming interface: Null, RPF nbr: 0.0.0.0

Outgoing interface list: (count: 0)

9396-A# **show vpc**

Legend:

(*) - local vPC is down, forwarding via vPC peer-link

vPC domain id : 1
Peer status : peer adjacency formed ok
vPC keep-alive status : peer is alive
Configuration consistency status : success
Per-vlan consistency status : success
Type-2 consistency status : success
vPC role : secondary
Number of vPCs configured : 1
Peer Gateway : Enabled


```
Dual-active excluded VLANs      : -
Graceful Consistency Check      : Enabled
Auto-recovery status            : Disabled
```

vPC Peer-link status

```
-----
id  Port  Status Active vlans
--  ----  -----
1   Po1    up     1,10,20
```

vPC status

```
-----
id  Port  Status Consistency Reason      Active vlans
--  ----  -----
48  Po48  up     success    success                1,10
```

9396-B

9396-B# **show nve peers**

```
-----
Interface Peer-IP          State LearnType Uptime  Router-Mac
-----
nve1      192.168.2.5             Up     DP        1w0d   n/a
```

9396-B# **show nve vni**

```
Codes: CP - Control Plane      DP - Data Plane
       UC - Unconfigured       SA - Suppress ARP
```

```
-----
Interface VNI      Multicast-group  State Mode Type [BD/VRF]  Flags
-----
nve1      160010           231.1.1.1        Up   DP   L2 [10]
nve1      160020           231.1.1.1        Up   DP   L2 [20]
```

9396-B# **show run interface nve1**

```
!Command: show running-config interface nve1
!Time: Sat Apr 25 15:23:25 2015
```

version 7.0(3)I1(1b)

```
interface nve1
 mtu 9216
 no shutdown
 source-interface loopback1
 member vni 160010 mcast-group 231.1.1.1
 member vni 160020 mcast-group 231.1.1.1
```

9396-B# **show nve internal platform interface detail**

Printing details of all NVE Interfaces

```
=====
|Intf|State|PriIP|SecIP|Vnis|Peers|
=====
|nve1|UP|192.168.2.3|192.168.2.1|2|1|
=====
```

SW_BD/VNIs of interface nve1:

```
=====
|Sw BD|Vni|State|Intf|Type|Vrf-ID|
=====
|10|160010|UP|nve1|DP|0|
|20|160020|UP|nve1|DP|0|
=====
```

Peers of interface nve1:

```
=====
```

peer_ip: 192.168.2.5, peer_id: 1, state: UP MAC-learning: Enabled
active_swbds:
add_pending_swbds:
rem_pending_swbds:

9396-B# **show mac address-table vlan 10**

Legend:

* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC
age - seconds since last seen,+ - primary entry using vPC Peer-Link,
(T) - True, (F) - False

VLAN	MAC Address	Type	age	Secure	NTFY	Ports
* 10	0000.1111.1111	dynamic	0	F	F	nve1(192.168.2.5)
+ 10	0000.2222.2222	dynamic	0	F	F	Po48
G -	58f3.9ca3.64dd	static	-	F	F	sup-eth1(R)

9396-B# **show ip mroute detail**

IP Multicast Routing Table for VRF "default"

Total number of routes: 4
Total number of (*,G) routes: 1
Total number of (S,G) routes: 2
Total number of (*,G-prefix) routes: 1

(*, 231.1.1.1/32), uptime: 2w1d, nve(1) ip(0) pim(0)

Data Created: No

VXLAN Flags

VXLAN Decap

VPC Flags

RPF-Source Forwarder

Stats: 1/64 [Packets/Bytes], 0.000 bps

Stats: Inactive Flow

Incoming interface: Ethernet1/7, RPF nbr: 192.168.1.5

Outgoing interface list: (count: 1)

nve1, uptime: 2w1d, nve

(192.168.2.1/32, 231.1.1.1/32), uptime: 2w1d, nve(0) ip(0) mrrib(0) pim(1)

Data Created: Yes

VXLAN Flags

VXLAN Encap

VPC Flags

RPF-Source Forwarder

Stats: 5/511 [Packets/Bytes], 0.000 bps

Stats: Inactive Flow

Incoming interface: loopback1, RPF nbr: 192.168.2.1

Outgoing interface list: (count: 1)

Ethernet1/7, uptime: 1w0d, pim

(192.168.2.5/32, 231.1.1.1/32), uptime: 2w1d, ip(0) mrrib(0) pim(0) nve(1)

Data Created: Yes

VXLAN Flags

VXLAN Decap

VPC Flags

RPF-Source Forwarder

Stats: 86621/7241564 [Packets/Bytes], 13.600 bps

Stats: Active Flow

Incoming interface: Ethernet1/7, RPF nbr: 192.168.1.5

Outgoing interface list: (count: 1)

nve1, uptime: 2w1d, nve

(*, 232.0.0.0/8), uptime: 2w1d, pim(0) ip(0)

Data Created: No

Stats: 0/0 [Packets/Bytes], 0.000 bps

```
Stats: Inactive Flow
Incoming interface: Null, RPF nbr: 0.0.0.0
Outgoing interface list: (count: 0)
```

```
9396-B# show vpc
```

```
Legend:
```

```
(*) - local vPC is down, forwarding via vPC peer-link
```

```
vPC domain id          : 1
Peer status            : peer adjacency formed ok
vPC keep-alive status  : peer is alive
Configuration consistency status : success
Per-vlan consistency status : success
Type-2 consistency status : success
vPC role               : primary
Number of vPCs configured : 1
Peer Gateway           : Enabled
Dual-active excluded VLANs : -
Graceful Consistency Check : Enabled
Auto-recovery status   : Disabled
```

```
vPC Peer-link status
```

```
-----
id  Port  Status Active vlans
--  ---  -
1   Po1   up     1,10,20
```

```
vPC status
```

```
-----
id  Port  Status Consistency Reason          Active vlans
--  ---  -
48  Po48  up     success    success          1,10
```

VXLAN数据包捕获

数据包捕获(PCAP)是从上一个拓扑并且包含OSPF hello、PIM加入/登记和VXLAN封装的数据流在网络图中显示的toplogy。您将注意某互联网控制消息协议(ICMP)标志例如‘无响应’。这归结于在RP完成的监控会话的本质。

监控会话包括接口Eth4/17-18和Eth4/20，因此它投掷Wireshark一些。重要信息是格式和标志。

注意：封装数据包(二赖子或者已知单播)从VTEP环回IP来源被注定对远程VTEP环回IP。这是所有vPC VTEPs的附属环回IP。

二赖子(广播、未知单播，组播)流量将被注定给mcast组。

单播流量将被注定对远程VTEP环回IP。

Filter: vlan Expression.. Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
167	12:58:10.9429990	Tektrnix_11:11:11	Broadcast	ARP	114	Who has 10.10.10.2? Tell 10.10.10.1
170	12:58:12.9439704	Tektrnix_11:11:11	Broadcast	ARP	114	Who has 10.10.10.2? Tell 10.10.10.1
180	12:58:16.9429297	Tektrnix_11:11:11	Broadcast	ARP	114	Who has 10.10.10.2? Tell 10.10.10.1
181	12:58:16.9439166	VisualTe_22:22:22	Tektrnix_11:11:11	ARP	114	10.10.10.2 is at 00:00:22:22:22:22
182	12:58:16.9439177	VisualTe_22:22:22	Tektrnix_11:11:11	ARP	114	10.10.10.2 is at 00:00:22:22:22:22
192	12:58:24.9453125	Tektrnix_11:11:11	Broadcast	ARP	114	Who has 10.10.10.2? Tell 10.10.10.1
193	12:58:24.9484137	VisualTe_22:22:22	Tektrnix_11:11:11	ARP	114	10.10.10.2 is at 00:00:22:22:22:22
194	12:58:24.9484148	VisualTe_22:22:22	Tektrnix_11:11:11	ARP	114	10.10.10.2 is at 00:00:22:22:22:22
203	12:58:26.9509390	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=256/1, ttl=255 (no response found!)
204	12:58:26.9509404	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=256/1, ttl=255 (reply in 205)
205	12:58:26.9520699	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=256/1, ttl=255 (request in 204)
206	12:58:26.9520713	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=256/1, ttl=255
207	12:58:26.9917102	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=512/2, ttl=255 (no response found!)
208	12:58:26.9917116	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=512/2, ttl=255 (reply in 209)
209	12:58:26.9922666	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=512/2, ttl=255 (request in 208)
210	12:58:26.9922680	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=512/2, ttl=255
211	12:58:26.9953011	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=768/3, ttl=255 (no response found!)
212	12:58:26.9953025	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=768/3, ttl=255 (reply in 213)
213	12:58:26.9956688	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=768/3, ttl=255 (request in 212)
214	12:58:26.9956700	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=768/3, ttl=255
215	12:58:26.9998814	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=1024/4, ttl=255 (no response found!)
216	12:58:26.9998828	10.10.10.1	10.10.10.2	ICMP	152	Echo (ping) request id=0x4004, seq=1024/4, ttl=255 (reply in 217)
217	12:58:27.0002376	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=1024/4, ttl=255 (request in 216)
218	12:58:27.0002390	10.10.10.2	10.10.10.1	ICMP	152	Echo (ping) reply id=0x4004, seq=1024/4, ttl=255

Frame 209: 152 bytes on wire (1216 bits) 152 bytes captured (1216 bits)

Ethernet II, Src: Cisco_Ob:60:45 (84:78:ac:0b:60:45), Dst: Cisco_fc:5a:01 (4c:00:82:fc:5a:01)

Internet Protocol Version 4, Src: 192.168.2.1 (192.168.2.1), Dst: 192.168.2.5 (192.168.2.5)

User Datagram Protocol, Src Port: 4993 (4993), Dst Port: 4789 (4789)

Source Port: 4993 (4993)

Destination Port: 4789 (4789) **UDP Dest, Port - 4789**

Length: 114

Checksum: 0x0000 (none)

[Stream index: 4]

Virtual extensible Local Area Network

Flags: 0x08

Reserved: 0x000000

VXLAN Network Identifier (VNI): 160010 **VNI = 160010**

Encapsulated:

Ethernet II, Src: VisualTe_22:22:22 (00:00:22:22:22:22), Dst: Tektrnix_11:11:11 (00:00:11:11:11:11)

Internet Protocol Version 4, Src: 10.10.10.2 (10.10.10.2), Dst: 10.10.10.1 (10.10.10.1)

Internet Control Message Protocol

Outer Encapsulation

Original Ethernet Frame

故障排除

目前没有针对此配置的故障排除信息。

相关信息

- [VXLAN基础演示](#)
- [VXLAN概述：Cisco连结9000系列交换机](#)
- [技术支持和文档 - Cisco Systems](#)